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Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)			<b>Complete If Known</b>		
			Application Number	10/070,719	
			Filing Date	September 20, 2002	
			First Named Inventor	James Robl	
			Art Unit	1632	
			Examiner Name	T. N. Ton	
Sheet	1	of	6	Attorney Docket Number	103080-P08-058

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/TNT/	AA	US-08/699,040	08-19-1996 (filing date)	Robl et al.	
	AB	US-09/032,945	03-02-1998 (filing date)	Robl et al.	
	AC	US-09/260,468	03-02-1999 (filing date)	Robl et al.	
	AD	US-09/395,368	09-14-1999 (filing date)	Robl et al.	
	AE	US-09/467,076	12-20-1999 (filing date)	Cibelli et al.	
	AF	US-09/685,061	10-06-2000 (filing date)	Robl et al.	
	AG	US-09/809,018	08-09-2001 (filing date)	Robl et al.	
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	AM	US-5,098,822	03-17-1992	Rosenkrans, Jr. et al.	
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	AS	US-5,681,718	10-28-1997	Field	
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	AY	US-60/342,358	12-27-2001 (filing date)	Cibelli et al.	
/TNT/	AZ	US-60/357,848	02-21-2002 (filing date)	West et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
/INT/	BA	WO-00/29602	05-25-2000	Cedars-Sinai Medical Center		
	BB	WO-01/00793	01-04-2001	Woo-Suk Hwang		
	BC	WO-01/19977	03-22-2001	University of Massachusetts		
	BD	WO-01/46401	08-28-2001	University of Massachusetts		
	BE	WO-90/03432	04-05-1990	Animal Biotechnology Camb.		
	BF	WO-91/08216	06-13-1991	Genpharm International		
	BG	WO-94/24274	10-27-1994	The University of Edinburgh		
	BH	WO-94/26884	11-24-1994	Biotechnology R & D Corp.		
	BI	WO-94/28889	11-24-1994	Istituto Nazionale Per Lo		
	BJ	WO-97/07669	03-08-1997	Roslin Institute		
	BK	WO-98/07841	02-26-1998	University of Massachusetts		
V	BL	WO-99/04608	01-28-1999	L'Air Liquide		
	BM	WO-99/05266	02-04-1999	Wisconsin Alumni Research		
/TNT/	BN	WO-99/45100	09-10-1999	University of Massachusetts		

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		<b>Complete If Known</b>			
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \* CITE NO.: Those application(s) which are marked with an asterisk (\*) next to the Cite No. are not supplied (under 37 CFR 1.88(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IPW. \* Applicant's unique citation designation number (optional). \* See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. \* Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \* For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \* Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. \* Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
/TNT/	CA	Adams, J. and Cory, S., "The Bcl-2 protein family: Arbiters of cell survival," Science, 281(5381):1322-1326(1998).		
	CB	Adenot et al., "Differential H4 acetylation of paternal and maternal chromatin precedes DNA replication and differential transcriptional activity in pronuclei of 1-cell mouse embryos," Development, 124:4615-4625(1997).		
	CC	Arsenian et al., "Serum response factor is essential for mesoderm formation during mouse embryogenesis," The EMBO Journal, 17(21):6289-6299(1998).		
	CD	Bain et al., "Embryonic Stem Cells Express Neuronal Properties In Vitro," Dev. Biol., 168:342-357(1995).		
	CE	Barnes et al., "Influence of Recipient Oocyte Cell Cycle Stage on DNA Synthesis, Nuclear Envelope Breakdown, Chromosome Constitution, and Development in Nuclear Transplant Bovine Embryos," Mol. Reprod. and Biol., 36:33-41(1993).		
	CF	Bergeron, et al., "Defects in Regulation of Apoptosis in Caspase Deficient Mice," Genes & Development, 12:1304-1314 (1998).		
	CG	Blerkom Van J., et al., "Mitochondrial Transfer Between Oocytes: Potential Applications of Mitochondrial Donation and The Issue of Heteroplasmy," Human Reproduction, 13(10):2857-2868 (1998).		
	CH	Bordignon, V., et al., "Telophase Enucleation: An Improved Method to Prepare Recipient Cytoplasts for Use in Bovine Nuclear Transfer," Molecular Reproduction and Development, 49:29-36 (1998).		
	CI	Botz, J., et al., "Cell Cycle Regulation of the Murine Cyclin E Gene Depends on an E2F Binding Site in the Promoter," Molecular and Cellular Biology, 16(7):3401-3409 (1996).		
	CJ	Bouchie et al., "Business and Regulatory News Briefs," Nature Biotech., 21:473-475(2003).		
	CK	Bowen, C.C., and Wilson, G.B., "A comparison of the effects of several antimetabolic agents," Journal of Heredity, 45:3-9(1954).		
	CL	Bradley et al., "Formation of Germ-Like Chimaeras from Embryo-Derived Teratocarcinoma Cell Lines," Nature, 309:255-258(1984).		
	CM	Bradley et al., Modifying the Mouse: Design and Desire, 1999, Biotechnology, vol. 10: 534-539.		
	CN	Cai, et al., "Sequence and Transcription of Qa-2-Encoding Genes in Mouse Lymphocytes and Blastocysts," Immunogenetics, 45(2):97-107 (1996).		
	CO	Campbell et al., "Sheep Cloned by Nuclear Transfer from a Cultured Cell Line," Nature, 380:64-66(1996).		
V	CP	Campbell et al., "Production of Live Lambs Following Nuclear Transfer of Cultured Embryonic Disc Cells," Theriogenology, 43:181(1995).		
/TNT/	CQ	Chang et al., "Blastocyst formation, karyotype, and mitochondrial DNA of interspecies embryos derived from nuclear transfer of human cord fibroblasts into enucleated bovine oocytes," Fertility & Sterility, 80(6):1380-1387 (2003)		

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		Art Unit	1632
		Examiner Name	T. N. Ton
		Attorney Docket Number	103080-P08-058
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/TNT/	CR	Chen et al., "Disruption of the HNF-4 gene, expressed in visceral endoderm, leads to cell death in embryonic ectoderm and impaired gastrulation of mouse embryos," Genes Devel., 8(20):2466-77(1994).	
	CS	Chen et al., "Embryonic Stem Cells Generated by Nuclear Transfer of Human Somatic Nuclei into Rabbit Oocytes," Cell Research, 13(4):251-263(2003).	
	CT	Chen et al., "The giant panda (Ailuropoda melanoleuca) somatic nucleus can dedifferentiate in rabbit ooplasm and support early development of the reconstructed egg," Science in China, 42(4): 346-353 (1999).	
	CU	Cheong et al., "Birth of Mice After Transplantation of Early Cell-Cycle-Stage Embryonic Nuclei into Enucleated Oocytes," Biol. Reprod., 48:958-963(1993).	
	CV	Cherny, R. and Merel, J., "Evidence For Pluripotency of Bovine Primordial Germ Cell-Derived Cell Lines Maintained in Long-Term Culture," Theriogenology, 41:175(1994).	
	CW	Chesne, P., et al., "Nuclear Transfer in Cattle: Birth of Cloned Calves and Estimation of Blastomere Totipotency in Morulae Used as a Source of Nuclei," Life Sciences, 316:487-491 (1993).	
	CX	Cibelli et al., "Cloned transgenic calves produced from nonquiescent fetal fibroblasts," Science, 280(5367):1256-1258(1998).	
	CY	Dennis, "Chinese Fusion Method Promises Fresh Route to Human Stem Cells," Nature, 424:711(2003).	
	CZ	DiBerardino, "Genetic Stability and Modulation of Metazoan Nuclei Transplanted into Eggs and Oocytes," Differentiation, 17:17-30(1980).	
	CA1	Dinnies, A., et al., "SomaticCloning Stem Cells, 4(1):81-90 (2002).	
	CB1	Dominko et al., "Bovine Oocyte as a Universal Recipient Cytoplasm in Mammalian Nuclear Transfer," Theriogenology, 49(1):385(1999).	
	CC1	Eistetter, "Pluripotent Embryonal Stem Cell Lines Can Be Established from Disaggregated Mouse Morulae," Develop. Growth & Differ., 31(3):275-282(1989).	
	CD1	Evans et al., "Establishment in culture of pluripotential cells from mouse embryos," Nature, 29:154-156(1981).	
	CE1	First, N., and Prather, R., "Genomic potential in mammals," Differentiation, 48:1-8(1991).	
	CF1	Gandolfi et al., "The Maternal Legacy to the Embryo: Cytoplasmic Components and Their Effects on Early Development," Theriogenology, 55(6):1255-76(2001).	
	CG1	Gerfen et al., "Isolation of Embryonic Cell-Lines From Porcine Blastocysts," Anim. Biotech., 6(1):1-14(1995).	
	CH1	Graham, Christopher., "The Fusion of Cells with One- and Two-Cell Mouse Embryos," Wister Inot. Symp. Monogr., 9:19-35(1969)	
	CI1	Granerus et al., Growth factors and apoptosis, 1996, Cell Prolif 29:309-314.	
	CJ1	Guidelines for Human Embryonic Stem Cell Research, p. 115	
	CK1	Handyside et al., "Towards the Isolation of Embryonal Stem Cell Lines From the Sheep," Roux's Arch Dev. Biol. 196:185-190(1987).	
	CL1	Heyman et al., Cloning of Domestic Species, Animal Reproduction Science 42(1/4):427-436 (1996)	
	CM1	Holdener et al., "msd is required for mesoderm induction in mice," Development, 120:1335-1346(1994).	
	CN1	Huang, "The Potential of Stem Cells," MURJ, 6:49-51(2002).	
	CO1	Jaenisch et al., "Treatment of mice with 5-azacytidine efficiently activates silent retroviral genomes in different tissues," Proc. Natl. Acad. Sci. USA, 82:1451-1455(1985).	
V	CP1	Jones et al., "Evolution of a cultural protocol for successful blastocyst development and pregnancy," Human Reproduction, 13(1):169-177(1998).	
/TNT/	CQ1	Juriscova et al., "Expression and Regulation of Genes Associated With Cell Death During Murine Preimplantation Embryo Development," Molecular Reproduction and Development,	

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		Filing Date	September 20, 2002		
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		Art Unit	1632		
		Examiner Name	T. N. Ton		
Sheet	4	of	6	Attorney Docket Number	103080-P08-058

		51:243-253(1998).	
/TNT/	CR1	Karnikova, L., et al., "Mouse Oocyte Maturation: the Effect of Modified Nucleocytoplasmic Ratio," <i>Reprod. Nutr. Dev.</i> 38(6):665-670 (1998).	
	CS1	Keefer et al., "Bovine Inner Cell Mass Cells as Donor Nuclei in the Production of Nuclear Transfer Embryos and Calves," <i>Biol. Reprod.</i> , 50:935-939(1994).	
	CT1	Kenyon et al., "Expanding the Functional Human Mitochondrial DNA Database by the Establishment of Primate Xenomitochondrial Cybrids," <i>Proc. Natl. Acad. Sci. USA</i> , 94:9131-9135(1997).	
	CU1	King et al., "Mutagenic Analysis of the Destruction Signal of Mitotic Cyclins and Structural Characterization of Ubiquitinated Intermediates," <i>Molecular Biology the Cell</i> , 7:1343-1357(1996).	
	CV1	Lanza, R. P., et al., "Human Therapeutic Cloning," <i>Nature Medicine</i> , 5(9):975-977 (1999).	
	CW1	Lee et al., "RNA helicase A is essential for normal gastrulation," <i>Proc. Natl. Acad. Sci. USA</i> , 95:13709-13713(1998).	
	CX1	Liu, et al., "Interplay of Maturation-Promoting Factor and Mitogen-Activated Protein Kinase Inactivation during Metaphase-to-Interphase Transition of Activated Bovine Oocytes," <i>Biology of Reproduction</i> , 61:1-7 (1999).	
	CY1	Loi et al., "Development of Parthenogenetic and Cloned Ovine Embryos: Effect of Activation Protocols," <i>Biol. Reprod.</i> , 58(5):1177-87(1998).	
	CZ1	Loi et al., "Genetic Rescue of an Endangered Mammal by Cross-Species Nuclear Transfer Using Post-Mortem Somatic Cells," <i>Nature Biotech.</i> , 19:962-964(2001).	
	CA2	Lundberg et al., "Generation of DOPA-Producing Astrocytes by Retroviral Transduction of the Human Tyrosine Hydroxylase Gene: In vitro Characterization and In vivo Effects in the Rat Parkinson Model," <i>Developmental Neurology</i> , 139:39-53(1996).	
	CB2	Marshall; Claim of Human-Cow Embryo Greeted with Skepticism, 1998, <i>Science</i> , vol. 282: 1390-1391.	
	CC2	Martin, "Isolation of a Pluripotent Cell Line from Early Mouse Embryos Cultured in Medium Conditioned by Teratocarcinoma Stem Cells," <i>Proc. Natl. Acad. Sci. USA</i> , 78(12):7634-7638(1981).	
	CD2	Meirelles, F.V., et al., "Mitochondrial Genotype Segregation During Preimplantation Development in Mouse Heteroplasmic Embryos," <i>Genetics</i> , 148:2-98 (1998).	
	CE2	Mitalipova, M., et al., "Bovine Oocyte Cytoplasm Reprograms Somatic Cell Nuclei from Various Mammalian Species," <i>Theriogenology</i> , 49(1):389 (1998).	
	CF2	Modlinski et al., "Embryonic stem cells: developmental capabilities and their possible use in a mammalian embryo cloning," <i>Animal Reprod. Sci.</i> , 42(1/4):437-446(1996).	
	CG2	Morrissey et al., "GATA6 regulates HNF4 and is required for differentiation of visceral endoderm in the mouse embryo," <i>Genes &amp; Devel.</i> , 12:3579-3590(1998).	
	CH2	Mulligan, "The Basic Science of Gene Therapy," <i>Science</i> , 260:928-932(1993).	
	CI2	Notarianni et al., "Derivation of pluripotent, embryonic cell lines from the pig and sheep," <i>J. Reprod. Fert., Suppl.</i> 43:255-260(1991).	
	CJ2	Notarianni et al., "Maintenance and differentiation in culture of pluripotential embryonic cell lines from pig blastocysts," <i>J. Reprod. Fert. Suppl.</i> 41:51-56(1990).	
	CK2	Palacios et al., "In vitro Generation of Hematopoietic Stem Cells from an Embryonic Stem Cell Line," <i>Proc. Natl. Acad. Sci. USA</i> , 92:7530-7534(1995).	
	CL2	Pederson, "Studies of In vitro Differentiation with Embryonic Stem Cells," <i>J. Reprod. Fert. Devel.</i> , 6:543-552(1994).	
✓	CM2	Radice et al., "H <sub>9</sub> 58, an insertional mutation affecting early postimplantation development of the mouse embryo," <i>Devel.</i> , 111:801-811(1991).	
/TNT/	CN2	Rime, et al., "6-Dimethylaminopurine (6-DMAP), A Reversible Inhibitor of the Transition to Metaphase during the First Mitotic Cell Division of the Mouse Oocyte," <i>Developmental Biology</i> , 133(1):169-179 (1989).	
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/TNT/	CO2	Rohwedel et al, "Loss of $\beta 1$ Integrin Function Results in a Retardation of Myogenic, but an Acceleration of Neuronal, Differentiation of Embryonic Stem Cells in Vitro," Devel. Biol., 201:167-184(1998).	
	CP2	Saga, Yumiko., "Genetic rescue of segmentation defect in MesP2-deficient mice by MesP 1 gene replacement," Mech. of Devel., 75:53-66(1998).	
	CQ2	Saito et al., "Bovine embryonic stem cell-like cell lines cultured over several passages," Roux's Arch. Dev. Biol., 201:134-141(1992).	
	CR2	Seshagine et al., Biol. Reprod., 40:544-606 (1989).	
	CS2	Shitara et al., Genetics, 156:1277-1284, November 2000.	
	CT2	Sims et al., "Interleukin 1 Signaling Occurs Exclusively Via the Type I Receptor," Proc. Natl. Acad. Sci USA, 90:6155-6159(1993).	
	CU2	Smith et al., "Buffalo Rat Liver Cells Produce a Diffusible Activity Which Inhibits the Differentiation of Murine Embryonal Carcinoma and Embryonic Stem Cells," Devel. Biol., 121:1-9(1987).	
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	CX2	Stedman, Stedman's Medical Dictionary, 1995, Williams & Wilkins, Baltimore, MD, 21201, USA, pg. 1642.	
	CY2	Stein et al., "Stage-Dependent Redistributions of Acetylated Histones in Nuclei of the Early Preimplantation Mouse Embryo," Molecular Reproduction and Development, 47:421-429(1997).	
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	CA3	Stice et al., Cloning: New Breakthroughs Leading to Commercial Opportunities, 1998, Theriogenology 49:129-138.	
	CB3	Tada et al., "Embryonic Germ Cells Induce Epigenetic Reprogramming of Somatic Nucleus in Hybrid Cells," EMBO J., 16(21):6510-20(1997).	
	CC3	Thomson et al., "Embryonic Stem Cell Lines Derived from Human Blastocysts," 282(5391):(1998).	
	CD3	Thomson, J. A., et al., "Neural Differentiation of Rhesus Embryonic Stem Cells," APMIS, 108:149-157 (1998).	
	CE3	Thomson, J. A., et al., "Pluripotent Cell Lines Derived from Common Marmoset (Callithrix jacchus) Blastocysts," Biology of Reproduction, 55:254-259 (1996).	
	CF3	Trounson, et al., "Potential Benefits of Cell Cloning for Human Medicine," Reproduction Fertility and Development, 10:121-125 (1998).	
	CG3	Urbani et al., "Dissociation of Nuclear and Cytoplasmic Cell Cycle Progression by Drugs Employed in Cell Synchronization," Experimental Cell Research, 219:159-168(1995).	
	CH3	Van Stekelenburg-Hamers et al., "Isolation and Characterization of Permanent Cell Lines From Inner Cell Mass Cells of Bovine Blastocysts," Molecular Reprod. and Devel., 40:444-454(1995).	
	CI3	Wade, "Researchers Claim Embryonic Cell Mix of Human and Cow," The New York Times National, A1, November 12, 1998.	
	CJ3	Weiss, "A Cloning Claim's Controversies," Washington Post, A3, November 13, 1998.	
	CK3	Weiss, "Can Scientists Bypass Stem Cells' Moral Minefield?," The Washington Post, A3, December 14, 1998.	
/TNT/	CL3	Westhusin, M.E., et al., "Cloning to Reproduce Desired Genotypes," Theriogenology, 55:35-49 (2001).	

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/TNT/	CM3	Westphal et al., "A Signaling Complex of Ca <sup>2+</sup> (SUP 2+) Calmodulin-Dependent Protein Kinase IV and Protein Phosphatase 2A," Science, 280:1258(1998).	
	CN3	Wilmot, I., and Schnieke, A.E., "Viable offspring derived from fetal and adult mammalian cells," Nature, 385(6619):810-813(1997).	
	CO3	Wolfe et al., "Embryos Produced by the Transfer of Caprine Nuclei to Enucleated Bovine Oocytes are Capable of Cleavage but do not Develop to Blastocysts," Biol. of Reprod. Suppl., (July 24, 1994).	
	CP3	Wolfe et al., Methods in Bovine Nuclear Transfer, Theriogenology 37(1):5-15 (1992)	
	CQ3	www.advancedcell.com/2000-10-08.htm, Press release on 8 October 2000 by Advanced Cell Technology, "Nearly Extinct Ox-Like Gaur Due to be Born in November," 2 pgs.	
	CR3	www.advancedcell.com/2001-01-12.htm. Press release on 12 January 2001 by Advanced Cell Technology, "Advanced Cell Technology Announces Birth of First Cloned Endangered Species" 3 pgs.	
	CS3	www.advancedcell.com/2003-04-08.htm, Press release on 8 April 2003 by Advanced Cell Technology, "Collaborative Effort Yields Endangered Species Clone" 3 pgs.	
	CT3	Yamane, Primary Cultures of Various Differentiated Human Cells and their Transfer, 1987: Abstract.	
	CU3	Yang et al., "Nuclear Totipotency of Cultured Rabbit Morulae to Support Full-Term Development Following Nuclear Transfer," Biol. of Reprod., 47:636-643(1992).	
	CV3	Yoshida et al., "Trichostatin A and trapoxin: novel chemical probes for the role of histone acetylation in chromatin structure and function," BioEssays, 17(5):423-430(1995).	
✓	CW3	Yoshimoto et al., "Astrocytes Retrovirally Transduced with BDNF Elicit Behavioral Improvement in a Rat Model of Parkinson's Disease," Brain Research, 692:25-36(1995).	
/TNT/	CX3	Zawada, W. M., et al., "Somatic Cell Cloned Transgenic Bovine Neurons for Transplantation in Parkinsonian Rats," Nature Medicine, 4(5):569-574 (1998).	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

\*Applicant's unique citation designation number (optional). \*Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/Thaian Ton/	Date Considered	01/21/2008
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